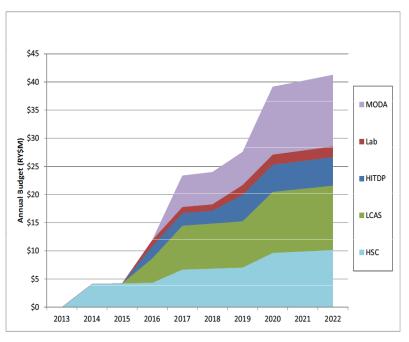
DRIVE Outlook

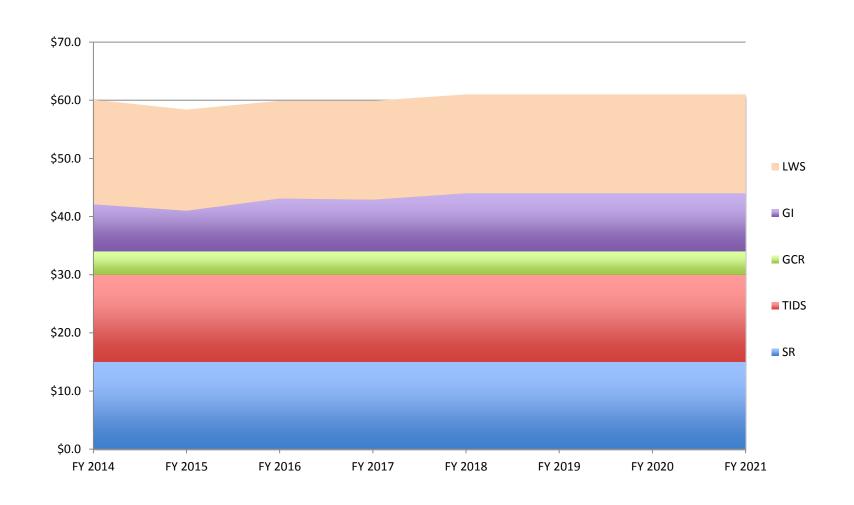


Solar and Space Physics: A Science for a Technological Society

Mona Kessel NASA HQ



Heliophysics Base ROSES Program



Decadal Survey – Implement Drive

Recommendation: A NASA tiny-satellite, augmenting Low-Cost Access to Space (LCAS) requiring the addition of \$9 million per year.

Recommendation:
NASA and NSF together
heliophysics science
centers, requiring NASA
funds ramping to \$8
million per year.

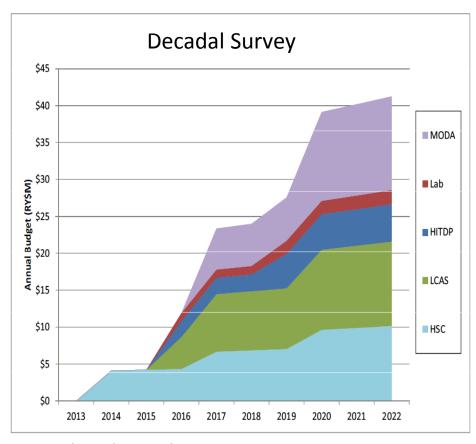
- Small satellites
- Science Centers
- Grant Programs
- Instrument development

Recommendation:
NASA augment
MO&DA support by
\$10 million per year.

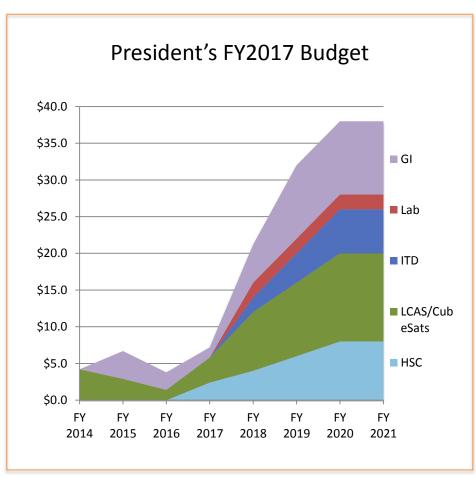
Recommendation: NASA heliophysics instrument and technology development program ramping to \$4 million per year.

Recommendation: NASA with NSF and DOE on laboratory plasma, ramping from \$2 million per year.

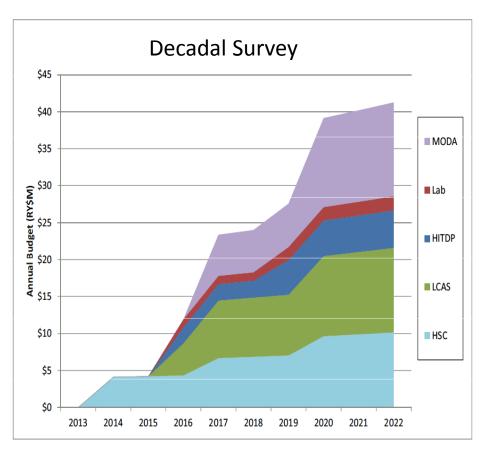
Decadal Survey – Implement Drive



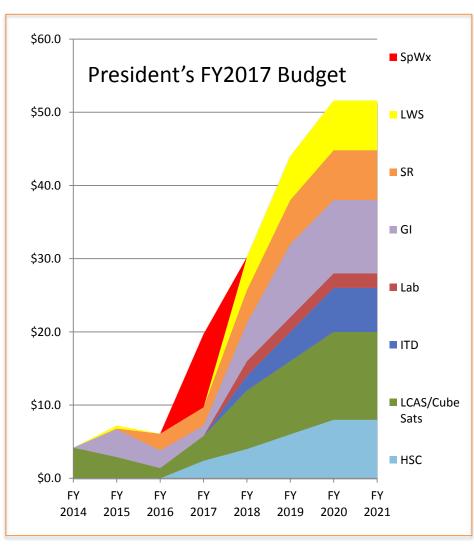
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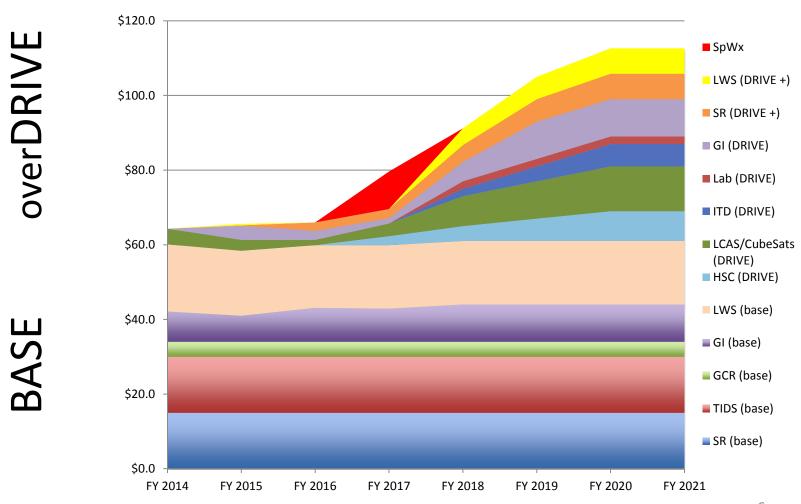
Decadal Survey – Implement overDrive



Solar and Space Physics: A Science for a Technological Society



Overall Heliophysics ROSES Program



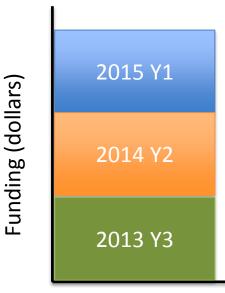
Summary & Conclusions

- Number 1 goal of Decadal Survey was to finish the current program
 - Launched Van Allen Probes (2012), MMS (2015)
 - ICON, GOLD, SPP, SOC, SET on target
 - This goal constrains Heliophysics budget until FY 2018
- Number 2 goal was to Implement DRIVE
 - HPD began to implement DRIVE in 2014 with small amounts as possible
 - HPD can fully implement DRIVE in FY 2018-20 assuming President's FY2017 budget is enacted

Backup

Assuming Flat funding

- Approximately 1/3 of funds go to New Awards each year
- approximately 1/3 of funds go to second year of previous year's competition
- approximately 1/3 of funds go to third year of the competition before that



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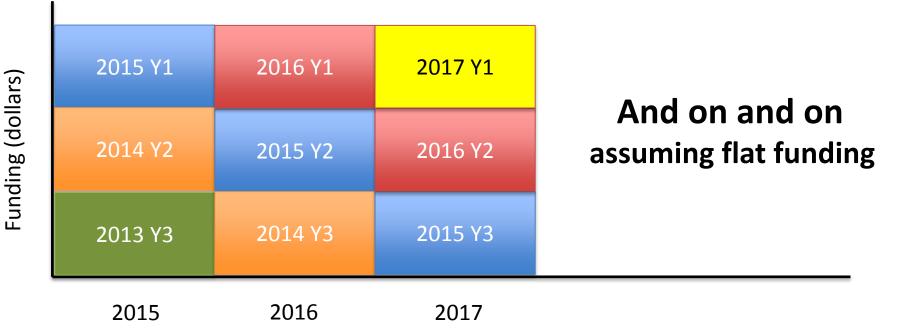


2015

2016

Assuming Flat funding

- Approximately 1/3 of funds go to New Awards each year
- approximately 1/3 of funds go to second year of previous year's competition
- approximately 1/3 of funds go to third year of the competition before that



However, assuming a step up in funding and needing to allocate all



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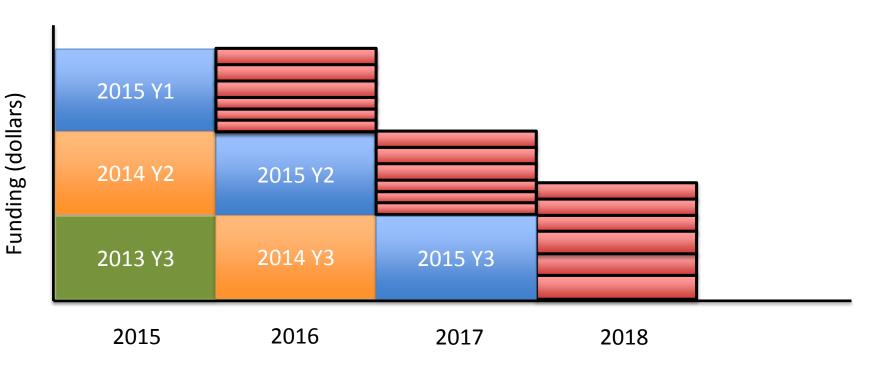


OR,

rephase a few awards

to provide less funding in Y1 & Y2 and more funding in Y3

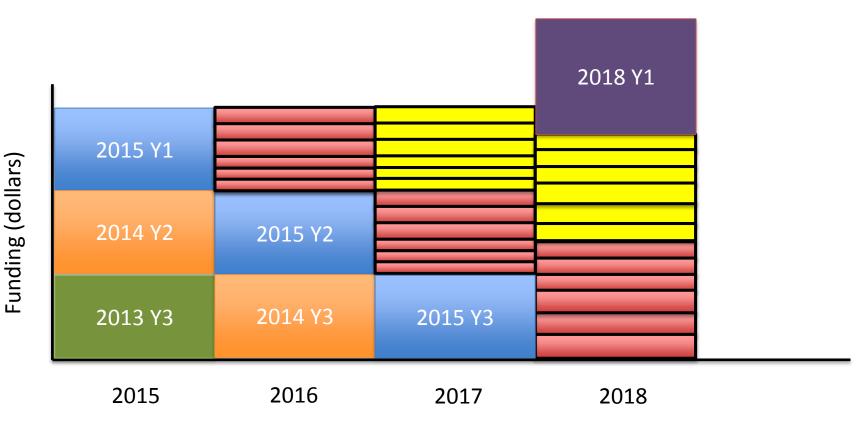
- to use up some of the increase in 2018
 - AND select more awards in 2016



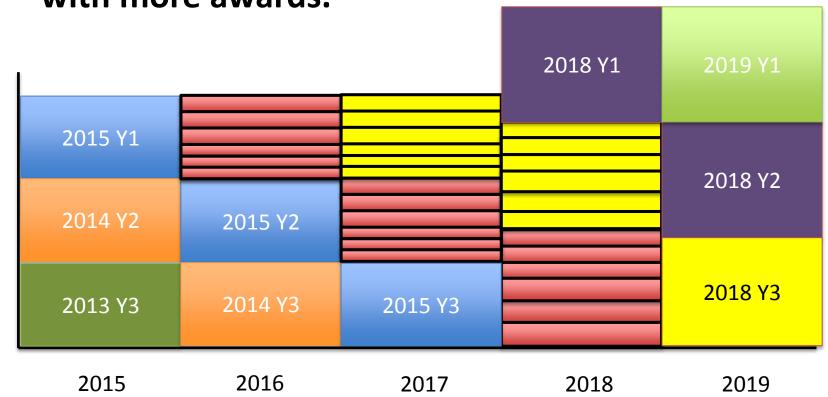
Again in 2017 rephase a few awards

to provide less funding in Y1 and more funding in Y2 & Y3

- to use up some of the increase in 2018
- AND select a few more awards in 2017



In 2018 and 2019 back to approximately 1/3 of funding selected each year with more awards.



Funding (dollars)

Implementing this approach shows forward planning and good stewardship.

Implemented this year for some R&A programs.